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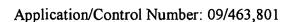


UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/463,801	03/16/2000	Holger Lowe	678-99	6812
759	90 03/07/2002			
John F McNulty Paul & Paul 2900 Two Thousand Market Street			EXAMINER	
			SHERRER, CURTIS EDWARD	
Philadelphia, PA 19103			ART UNIT	PAPER NUMBER
			1761	1.3
		DATE MAILED: 03/07/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		AS-13			
	Application No.	(pplicant(s)			
	09/463,801	LOWE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Curtis E. Sherrer	1761			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	corresponaence adaress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s) filed on 27	<u>January 2000</u> .				
	nis action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	•	730 O.G. 210.			
4)⊠ Claim(s) <u>1-21</u> is/are pending in the applicatio					
4a) Of the above claim(s) is/are withdra	wn from consideration.				
5) Claim(s) is/are allowed.		·			
6)⊠ Claim(s) <u>1-21</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.				
Application Papers	n-				
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119	(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. ☐ Certified copies of the priority documer	its have been received.				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domes					
a) ☐ The translation of the foreign language p					
a) \(\) The translation of the foleigh language \(\rho \) 15) \(\sum \) Acknowledgment is made of a claim for dome.	stic priority under 35 U.S.C. §§ 1	20 and/or 121.			
Attachment(s)	C	(DTO 442) Borer Na/a)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)			
ILS Patent and Trademark Office					



Art Unit: 1761

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the features claimed must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.

Art Unit: 1761

- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a). "Microfiche Appendices" were accepted by the Office until March 1, 2001.)

- (e) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Objections

Claims 1-21 are objected to because of the following informalities: Claim 1 is comprised of two sentences rather than one as is required. See MPEP 608.01(m). Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Art Unit: 1761

Claims 1-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is indefinite because the scope of the phrases "each show at least on membrane" and "layers do not exhibit any cells or enzymes enclosed in the inner part of the capsule" is unknown.

Claim 1 is indefinite because there is no antecedent basis for the phrases "the inner capsule," "the inner capsule cells," "the output product," "the products converted," and "the inner part of the capsule."

Claim 1 is indefinite because it is unknown how "two layers" are physically arranged so that "each layer completely encloses all of the layers . . . below it."

Claim 2 is indefinite because it appears to broaden claim 1. Specifically, it refers to "at least two layers" wherein claim 1 only refers to two layers. Similarly, claims 5 and 15 refer to "at least one layer."

Claim 4 is indefinite because the scope of the phrase "the matrix shows and alginate bond" is unknown.

All the claims rely on the phrase "characterized in that" and this should be changed to one of the accepted preamble phrases, e.g., "comprising," "consisting essentially of" or "consisting of."

Claim 6 is indefinite because the it is not clear how the "matrix . . . is liquefied."

Art Unit: 1761

Claim 8 is indefinite because there is no antecedent basis for the phrase "the active

substances and/or microorganisms found outside the microcapsule." Further, the scope of the

phrase "which impair the activity of the cells or enzymes" is unknown.

Claim 1 is indefinite because it contains the word "especially" in the preamble phrase and

it is not clear if this is a positive limitation in the claim.

Claim 14 is indefinite because the scope of the phrase "substance that increases the

activity of the cells of enzymes" is unknown.

Claims 9 and 21 are indefinite because it contains the word "preferably" and it is not

clear if this is a positive limitation in the claim.

Claim 21 is indefinite because the scope of the phrase "high yields" is not known.

At present, an examination of this application reveals that it includes terminology that is

so different from that which is generally accepted in the art to which this invention pertains that

it renders the claims unsearchable and therefore, a proper search of the prior art cannot be made

at this time.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Curtis E. Sherrer whose telephone number is 703-308-3847. The

examiner can normally be reached on Tuesday-Friday, 8AM-6:30PM.

Page 5

Art Unit: 1761

Page 6

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano can be reached on 703-308-3959. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3602 for regular communications and 703-305-3602 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Curtis E. Sherrer Primary Examiner

March 6, 2002